

MILAGRES COLLEGE

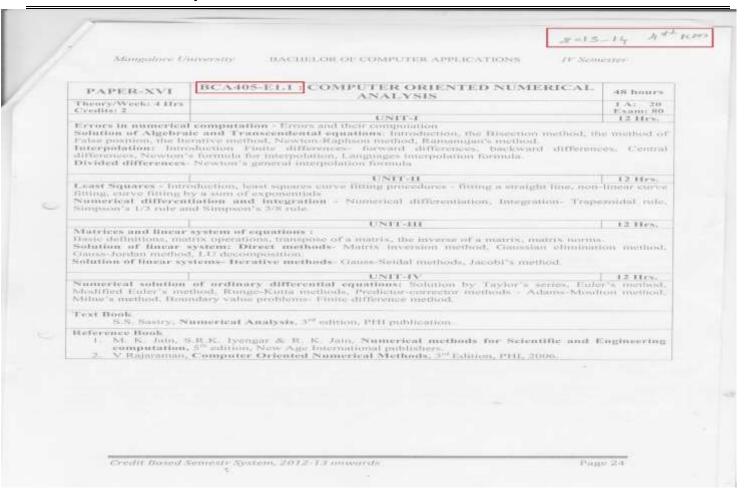
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Office of the Principal

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2013-14 Osthyem

12 Hrs.

Mangalore University

BACHELOR OF COMPUTER APPLICATIONS

V Semester

PAPER-XXII	BCA-506-E2.3 : LAMP TECHNOLOGY	48 hours
Theory/Week: 4 Hrs Credits: 2		I A: 20 Exam: 80
	UNIT-I	12 Hrs.

Linux Operating System: Linux Operating System Concepts and Architecture; Overview of the Linux Kernel, User Space, Kernel Space; Processes and Daemons, Process Control; Overview of Linux Administration; Linux File system, User, Group and Resource Management; Configuration Files Overview; File system Permissions, Access Permissions and Security, Common Filesystem Commands, Recursion Option in Commands, Find, Grep, Cat, More, Less and Sort Commands.

UNIT-II

Apache Web Server: Linux distribution Apache Installation; Starting and stopping Web Server Apache Configuration files: Apache Directives – Server Configuration, Directory level configuration; braccess and Directory, Access Control, URL Pathnames, MIME types, CGI files, Automatic directory Indexing. Authentication, Log files; Virtual Hosting – IP Address Virtual Host, Name Based Virtual Host, Dynamic Virtual Hosting. Server Side includes; Apache GUI Configuration Tools & Comanche and linuxconf; Web Server Security – SSL; Apache Web Server Configuration files

UNIT-III 12 Hrs

HTML/XHTML and HTTP: basics review, PHP and the web server Architecture model, Overview of PHP capabilities, CGI vs. Shared Object Model, PHP HTML Embedding Tags and Syntax, simple PHP script example; PHP and HTTP environment variables

MYSQL Database Server: Installation-precompiled packages, post installed configuration, post installed troubleshooting; MySQL Administration; Commands — mysamchk, mysql, mysqladmin, mysqlbug, mysqlimport, mysqlshow; Creating users and granting them permissions; Creating databases; Data types, Creating a table; Graphical tools

PHP: Obtaining, Installing and configuring PHP; obtaining PHP Source code; Installing PHP from Binary Packages; PHP and security considerations; PHP configuration parameters and the php.ini File; Language Options, Register Globals and Security Resource limits parameters, Error Handling and Logging parameters; Data handling parameters, Paths and Directories, Dynamic Extensions, Checking install with phpinfo function.

UNIT-IV 12 Hrs.

PHP Language core: Variables, Constants and Datatypes, and Operators: Decision making, Flow control and loops; Arrays and Array operations, Two dimensional and multidimensional arrays, Strings and strings operations; Functions, Function Declaration and parameter passing; Outputting data, include and require statements; file and Directory Access Operation; Error Handling and Reporting Considerations: Processing HTML From Input from the User; Creating a Dynamic HTML Form with PHP; Login and Authenticating Users; Using GET, POST, SESSION and COOKIES variable; Session management and Variables; Working with Cookies, Sending Emails; Object Oriented PHP: Classes and Constructors

Database Operation With PHP: Built-in Database Function Connecting to a MySQI Database; Selecting a Database, Building and Sending the Query to Database; Engine, Retrieving Result & Retrieving. Updating and Inserting Data; Sample Database Routines and Code Segments, Enging Database; Operations for Troubleshooting